

STAT

Progress Report No. 18

Report Period: 24 July 1967 to 25 August 1967

Project Title: Gems Development (continuation)

PROJECT IDENTIFICATION

Contractor's Project No. . . . . SPO 27203

Customer Project No. . . . .

Contract No. . . . .

FISCAL DATA

Type of Contract

CPFF

Total Contract

Scheduled Completion Date

29 September 1967\*\*

Percent of Total Funds Expended

94 as of 11 August 1967\*

Percent of Work Completed

94 as of 11 August 1967\*

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\* Report of expenditures and work completion lags technical progress report by approximately three weeks.

\*\* New completion date established as of January, 1967, under Redirection of Program Efforts Proposal.

Declass Review by  
NIMA/DOD

### Objective of Project

The principal objective of this project is to determine how well the image quality of mission photography can be assessed by means of GEMS. In order to accomplish this objective, psychophysical tests shall be performed wherein photographic images of known quality (GEMS) are compared to mission photography. In fulfillment of this objective, a number of subtasks are being undertaken. These subtasks consist of the refinement of existing GEMS making techniques, the study of alternate techniques, the study of GEMS viewing equipment, and the fabrication of a Pseudo GEMS breadboard.

### Status of Overall Project

The Psychophysical GEMS tests continued past the anticipated completion date. All other program technical efforts have been completed. Task final report writing continued.

#### a) Psychophysical GEMS Matrix

The Psychophysical GEMS tests have continued three weeks past the anticipated 3 August completion date. This delay, as reported by [ ] is due to a longer than anticipated test performance time and also because of the man-power availability at the customer's facility. [ ] indicated that useful results are being derived from the test data.

It is quite likely that the program completion date of 29 September will slip because of the psychophysical test delay. [ ] stated that the test report will not be completed before mid-September. This means that the report will be received by [ ] during the third or fourth week of September at the earliest.

#### b) Other Study Tasks

The writings of the final task reports exists at various stages of completion. The first of these reports will be submitted to the customer next week.

### Work for Next Period

Complete and submit task final report  
summary final report.

Section